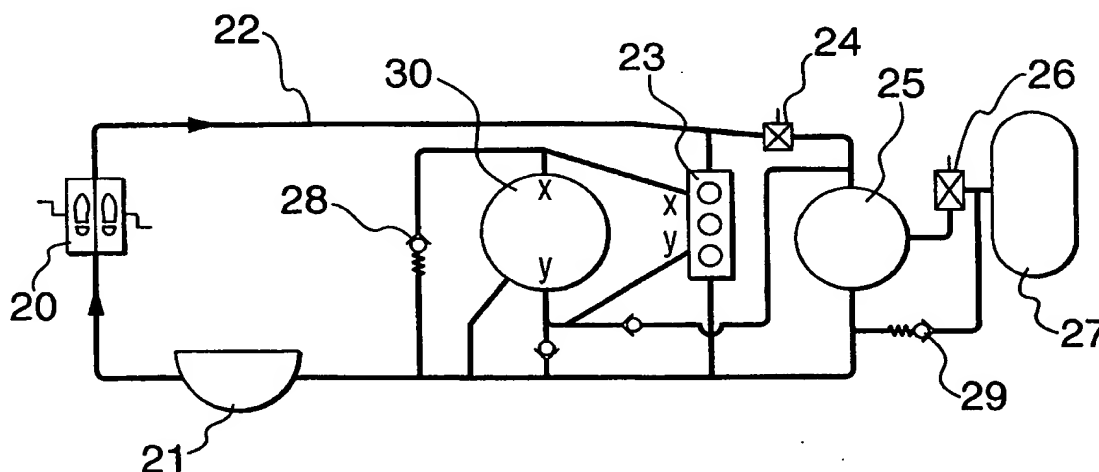




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(54) Title: HYDRAULIC DRIVE SYSTEM



(57) Abstract

A hydraulic propulsion system for a human powered wheeled vehicle includes a treadle pump, accumulator, a hydraulic motor, reservoir and valve means connected in a hydraulic circuit. The motor is used for driving a wheel, and is connected by a bidirectional clutch under operator control to provide regenerative braking. Improved energy conservation and acceleration are obtained. A hydraulic pressure ratio transducer, under manual control, may be included in the circuit for controlling acceleration and braking.